



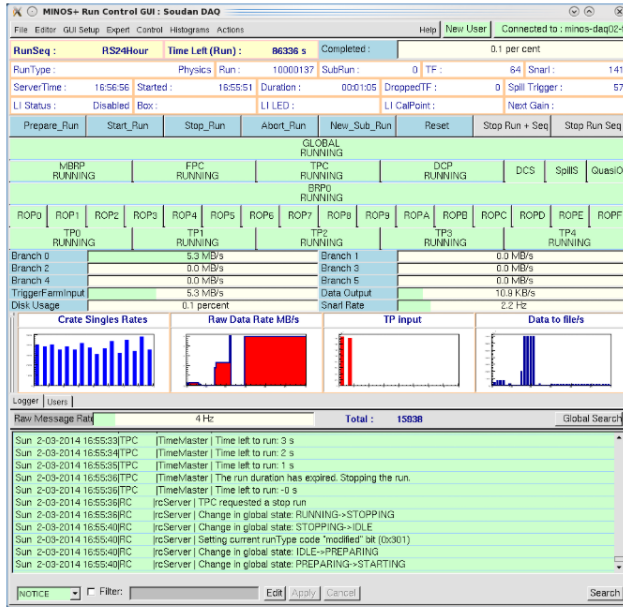
# MINOS+ Status Report



Xinjie Qiu  
All Experimenters' Meetings  
March 10, 2014



# Far Detector



- Old PCI bus based DAQ was successfully switched to a new Ethernet based DAQ (same as the ND)
  - New DAQ is now running smoothly for a week!
  - Collaboration agreed to do a fast track reconstruction of the beam data
  - Data Quality and Calibrations groups will check data as well
- A few changes, fixes and improvements at FD DAQ
  - Fix the crate MVME temperatures readout for new FD DAQ are not present in OM
  - Removed the obsolete "Reset Output Branch" option in the new DAQ Actions pull down menu
  - Add optional debugging output in the TRC readout code
  - DCS & Timing Web status script to run properly in the new DAQ system
  - Added ROP temperatures to DCS pages (both ND and FD)



# Far Detector



- Crate 4 PPS auxiliary system monitor problem
  - Crate 4 time plots are not correct since last Monday afternoon
  - Replaced several components in the Crate (TRC, cables, MVME CPU, etc.) , it still does not work
  - Email was sent to former timing expert asking for advice
  - The PPS being timed in crate 4 is a spare system,
  - Do not expect affecting data quality



# Far Detector



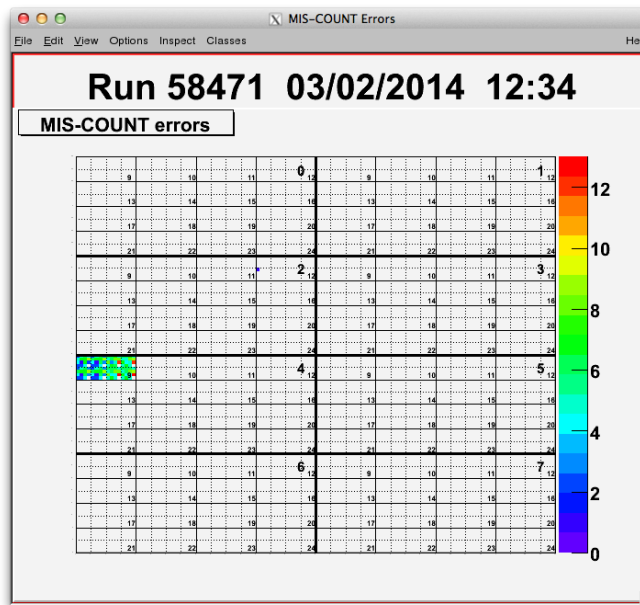
- Timing error between Crates
  - There was scheduled network maintenance on Sunday morning, March 9.
  - Maintenance affected pseudo wires between Soudan and FNAL
  - The problem showed up after the return of network at 11:43 am
  - Both the ND and FD started to show the time offsets between ROPs
    - FD DAQ kept running with errors messages
    - ND DAQ crashed and we can not get it work
  - The errors seem to indicate that packets being passed between the daqtpc-nd (or daqtpc) machine and the ROPs are being delayed.
  - They delay doesn't happen all the time, and typical delays are ~60ms, but sometimes at the ND the delay is as big as half a second, which is enough to crash DAQ
  - Experts are still investigating the cause of the problem



# Near Detector



- Control room OM computer
  - Went bad last Wednesday and is beyond repair
  - Used to hosted Underground Access verification web page
  - Arthur Kreymer temporary moved to a NOvA computer  
<http://novadaq-ctrl-datamon.fnal.gov/cgi-bin/fluffy.cgi>
- Master 4-9 shows MIS-COUNT errors in each and every Minders/Menus
  - We'll replace it at the next beam downtime





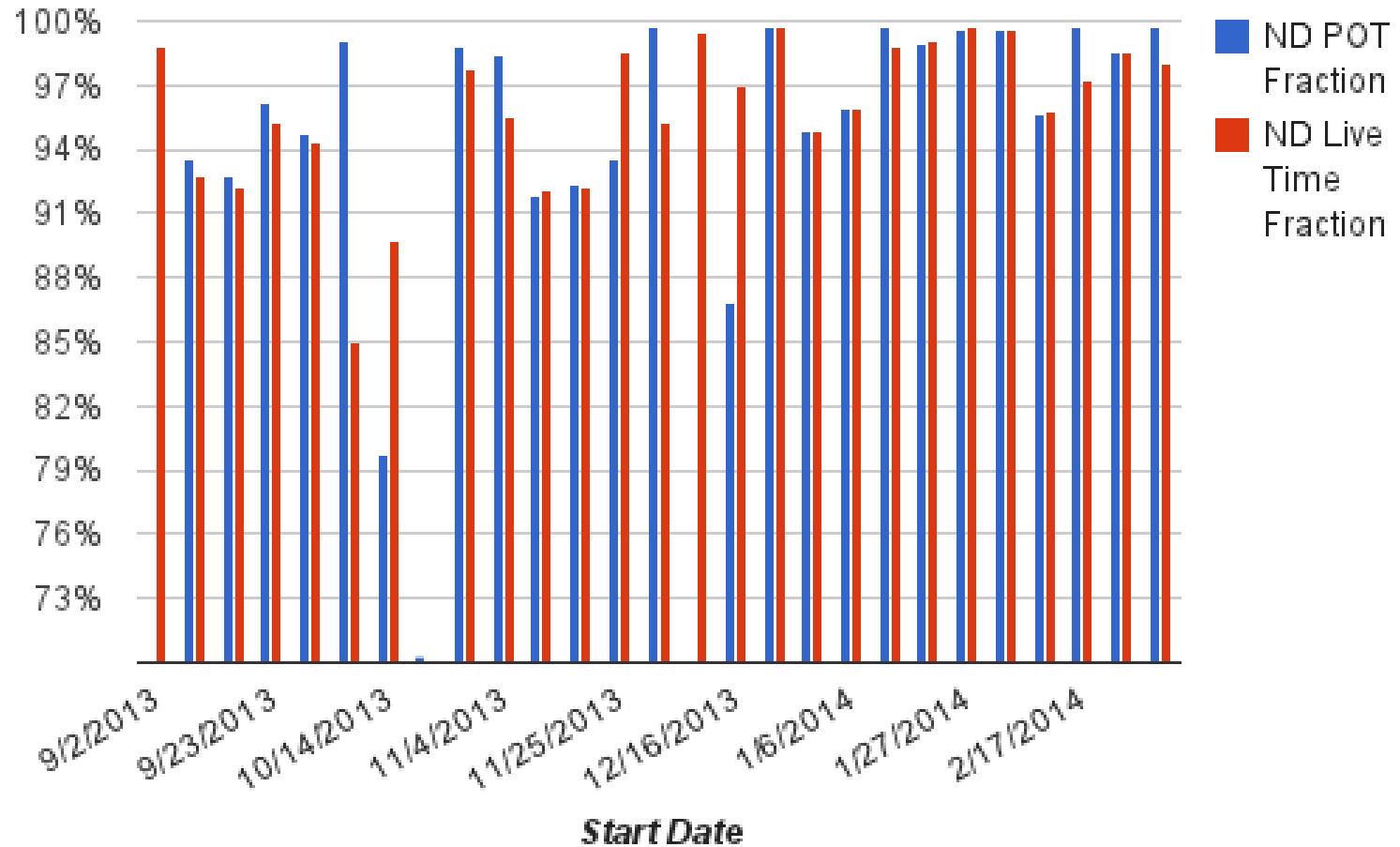
# MINOS+ Status



Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/30/13 00:00:00	01/06/14 00:00:00	94.9%	94.9%	98.5%	98.5%
01/06/14 00:00:00	01/13/14 00:00:00	95.9%	95.9%	98.7%	98.8%
01/13/14 00:00:00	01/20/14 00:00:00	99.7%	98.8%	99.8%	99.3%
01/20/14 00:00:00	01/27/14 00:00:00	99.0%	99.1%	95.2%	94.8%
1/27/14 00:00:00	2/3/14 12:00 AM	99.7%	99.7%	95.8%	96.6%
2/3/14 00:00:00	2/10/14 12:00 AM	99.5%	99.6%	94.9%	95.2%
2/10/14 00:00:00	2/17/14 12:00 AM	95.7%	95.7%	99.9%	99.0%
2/17/14 00:00:00	2/24/14 12:00 AM	99.7%	97.2%	78.0%	87.0%
2/24/14 00:00:00	3/03/14 12:00 AM	98.5%	98.5%	2.09%	2.13%
3/03/14 00:00:00	3/10/14 00:00:00	99.8%	98.0%	88.0%	84.2%



## ND POT fraction and Live Time Fraction





## FD POT Fraction and Live Time Fraction

